USER MANUAL FOR

CLA-2000 CONTENT LIBRARY ADAPTER

December 15, 2014

TABLE OF CONTENTS

1. INTRODUCTION 7
1.1 About This Manual 7
1.2 Safety Instructions 7
2. INSTALLATION OF CLA-2000 9
2.1 Packing List 9
2.2 Product Specifications 10
2.3 Front Panel 10
2.4 Back Panel 10
2.5 Cable Connection to Different Devices 11
2.5.1 Ethernet Connection between CLA-2000 and Network Switch 11
2.5.2 eSATA/USB Connection between CLA-2000 and Storage Devices 12
2.5.2.1 Connection to CRU 12
2.5.2.2 Connection to Portable Storage 13
2.5.2.3 Connection to Enterprise Storage 14
2.6 First Time Setup of CLA-2000 15
2.6.1 Physical Power Connection 15
2.6.2 Network Connection 15
2.6.3 Power Up CLA-2000 15
2.6.4 Configure CLA-2000 via CLA Manager on Windows PC 15
2.6.5 Operate CLA-2000 16
3. OPERATION OF CLA-2000 17
3.1 About CLA Manager 17
3.2 Access CLA Manager 17
3.3 CLA-2000 Content Management 22
3.3.1 Content Transfer between Two Storage Devices 22
3.3.2 Content Transfer from CRU to Storage Device 24
3.3.3 Content Transfer through LAN to Multiple Screens Simultaneously 24
3.3.3.1 Operation on CLA Manager 24
3.3.3.2 Operation on GDC Server 26

3.4 Remote Access CLA-2000 27
3.4.1 Access CLA-2000 on the Linux or MAC Operating System 27
3.4.2 Access CLA-2000 on the Windows Operating System 27
3.5 Eject External Devices from CLA Manager 27
3.6 Shut Down the CLA Manager 28
3.7 RESET CLA-2000 29

Thank you for purchasing a CLA-2000 Content Library Adapter from GDC Technology Limited.

To ensure proper operation and to maximize value of CLA-2000, please review this User Manual. It will guide you through all the features and benefits.

COPYRIGHT NOTICE

Copyright© 2014 by GDC Technology Limited

All rights reserved. No part of this manual may be copied or distributed, transmitted, transcribed, stored in a retrieval system, or translated into any human or computer language, in a form or by any means, electronic, mechanical, photocopying, recording, magnetic, optical, manual or otherwise, or disclosed to third parties without prior written permission of GDC Technology Limited.

MANUAL DISCLAIMER

The manual is made with CLA-2000 Firmware (2.0-build 7) and CLA Manager (V2.0) and there might be slight differences depending on the software version. The contents, features and specifications stated in this manual are subject to change without notice due to continuous product development and improvements. In no other event shall GDC Technology Limited be liable for any loss of profit or any other commercial damages, including but not limited to

CONTACTS AND OFFICES

Website: **www.gdc-tech.com** Email: **info@gdc-tech.com**

24/7 Engineering Support Hotline:

North America	+1 877 743 2872 (Toll Free)	Latin America	+52 55 8851 1198
Europe	+34 928 912 295	China	+86 400 886 0996 (Toll Free)
North Asia	+852 3520 0920 (Toll Free)	India	+91 022 4044 0500
South East Asia	+65 6100 4328	Australia/ New Zealand	+61 407 040 744

Hong Kong (Headquarters)

Unit 1-7, 20th Floor,
Kodak House II,
39 Healthy Street East,
North Point, Hong Kong

Tel: +852 2507 9555

China (Beijing)

Rm. 609-618, Office Building,20# Xinde Street,
Xicheng District, Beijing,
P.R. China 100088

Tel: +86 10 6205 7040

China (Shenzhen)

Room A701, 7/F,
Languang Technology Building,
No.7 Xinxi Road, North Zone,
HighTech Park, Nanshan District,
Shenzhen, China
Tel: +86 755 8608 6000

Spain (Barcelona)

Edificio Mercurio
Vía Augusta, 59, desp. 607
08006 Barcelona, Spain

Tel: +34 93 159 51 75

Peru (Lima)

Calle Rey Bahamonde N°111
Santiago de Surco
Lima 33 - Peru

Tel: +51 1 677 6708

USA (Los Angeles, CA)

1016 West Magnolia Boulevard Burbank,
CA 91506, USA

Tel: +1 818 972 4370 /
+1 877 743 2872
(Toll Free)

Mexico (Mexico City)

Ave. Santa Fe 94, Torre A Piso 8 Col. Zedec Santa Fe, Alvaro Obregon,
Mexico, D.F.,
C.P. 01210 Mexico

Tel: +52 55 8851 1198 /
+52 55 8851 1165

India (Mumbai)

Office No. B-207/208,
Everest Chamber, Andheri Kurla Road, Marol,
Andheri (East), Mumbai-400 059, India

Tel: +91 22 4044 0500

Brazil (São Paulo)

Avenida Paulista, 807 conjs.
701/703 01311-100,
São Paulo – Brasil

Tel: +55 11 32058100

Singapore

10 Ubi Crescent,
Ubi Tech Park,
Lobby B, #06-25
Singapore 408564
Tel: +65 6222 1082

Japan (Tokyo)

3F, Kyobashi-Chuo Bldg,
1-14-7 Kyobashi Chuo-ku
Tokyo 104-0031, Japan

Tel: +81 3 5524 3607

Indonesia (Jakarta)

Total Building Lantai 4
Suite 0401,
Jl. Letjen S. Parman Kav. 106A,
Kel. Tomang, Kec. Grogol Petamburan, Jakarta 11440

1. INTRODUCTION

1.1 About This Manual

This manual provides instructions on how to use and manage CLA-2000 Content Library Adapter for content transfer and storage backup with or without Theatre Management System (TMS).

1.2 Safety Instructions

The CLA-2000 is intended for installation in a restricted access location.

The operating environment temperature range is 0°C - 70°C

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

For PLUGGABLE EQUIPMENT, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Before operating your CLA-2000, please read this manual thoroughly, and retain it for future reference.

Installation and preliminary adjustments should be performed by qualified GDC Technology personnel. All warnings on the CLA-2000 and in this manual should be adhered to.

All operation and maintenance instructions of CLA-2000 must be followed closely.

To prevent fire or electrical shock hazard, do not expose the CLA-2000 to rain or moisture.

Clean with a dry cloth only.

Do not block any ventilation openings.

Do not install near any heat sources (e.g. radiators, stove or other apparatus that produce heat).

Consult GDC Technology Service team for servicing or maintaining CLA-2000.

You are cautioned that any changes or modifications not expressly approved in this manual or approved in writing by an authorized representative of GDC Technology could void your warranty and/or authority to operate CLA-2000.

2. INSTALLATION OF CLA-2000

2.1 Packing List

This section describes the equipment shipped with the CLA-2000.

Item	Qty	Photo
CLA-2000 Unit	1	
Power Cord	1	
3M Ethernet Cable	1	
Manual CD	1	
User Manual	1	

2.2 Product Specifications

Dimensions: 440(W) x 252.4(D) x 44.4(H) mm

Weight: 4kg

2.3 Front Panel

1	Power Button
2	Power LED
3	USB Connector
4	Ethernet Connector
5	eSATA Connector

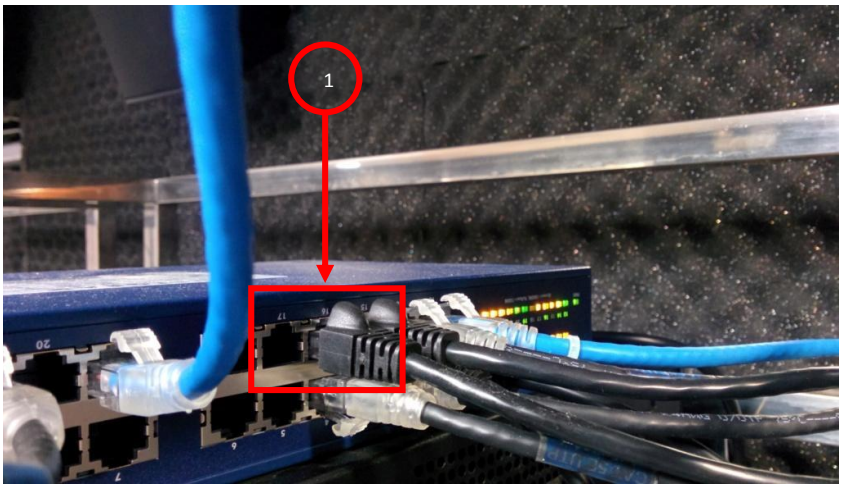
2.4 Back Panel

1	VGA Port
2	Reset Button
3	DC Power Jack

2.5 Cable Connection to Different Devices

2.5.1 Ethernet Connection between CLA-2000 and Network Switch

This section shows you how to connect the CLA-2000 to a network switch using an Ethernet cable.

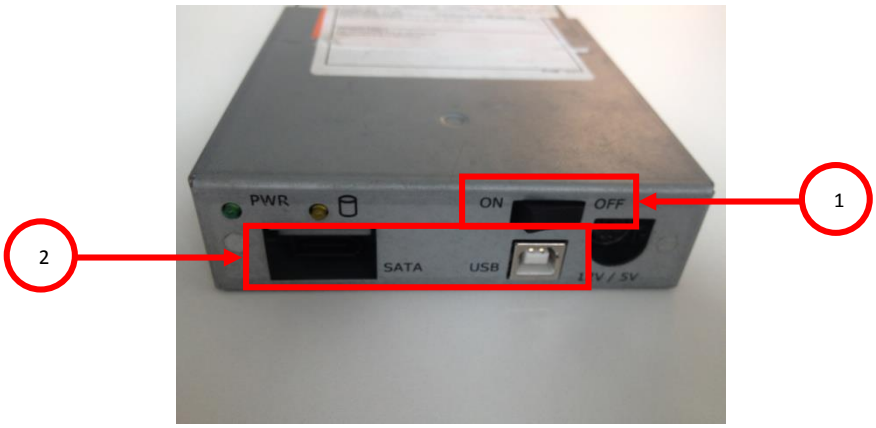


1	Connect one end of the Ethernet cable to the network switch.
2	Connect another end of the Ethernet cable to the Ethernet port on the front panel of CLA-2000.

2.5.2 eSATA/USB Connection between CLA-2000 and Storage Devices

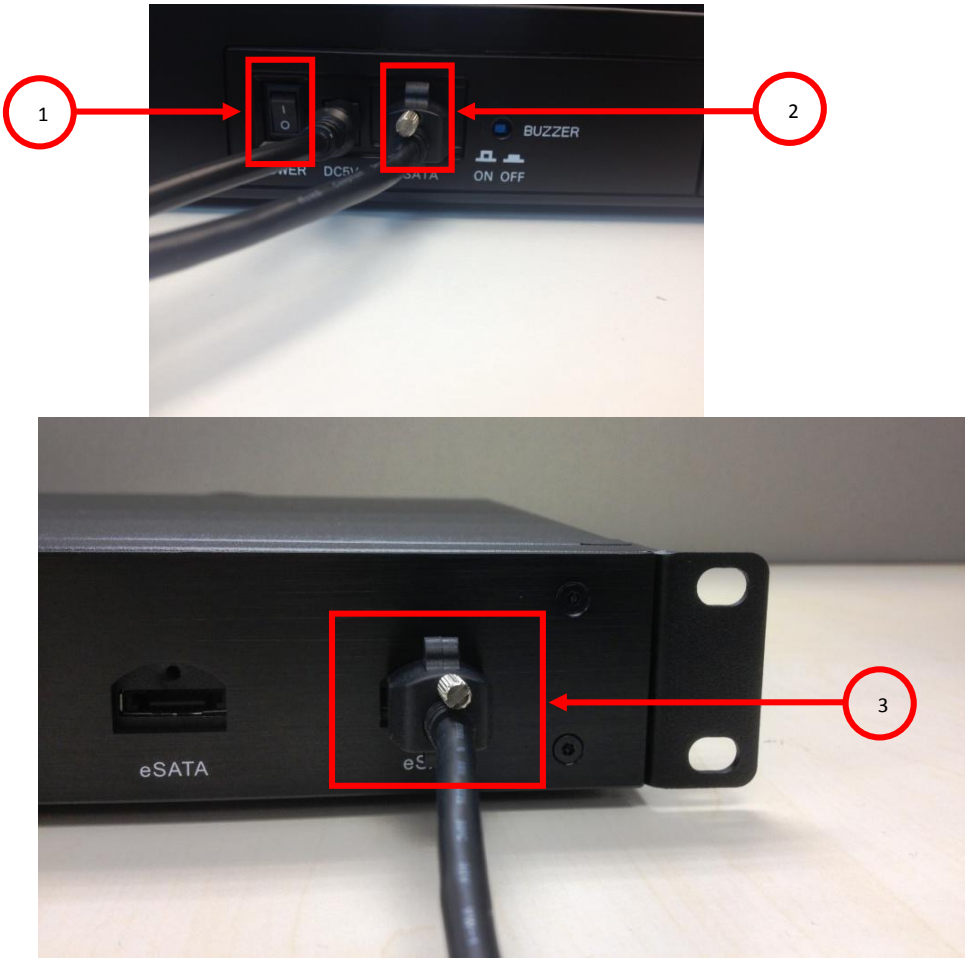
This section shows you how to connect the CLA-2000 to different storage devices using an eSATA/USB cable.

2.5.2.1 Connection to CRU



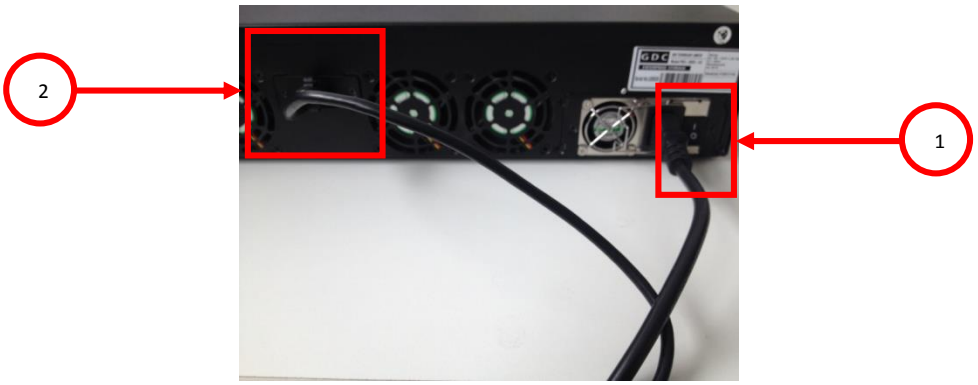
1	Power on the CRU.
2	Connect one end of the USB or eSATA cable to the corresponding port on CRU.
3	Connect another end of the cable to the corresponding USB or eSATA port on the front panel of CLA-2000.

2.5.2.2 Connection to Portable Storage



1	Power on the Portable Storage.
2	Connect one end of the eSATA cable to the eSATA port on the back panel of Portable Storage.
3	Connect another end of the cable to the eSATA port on the front panel of CLA-2000.

2.5.2.3 Connection to Enterprise Storage



1	Power on the Enterprise Storage.
2	Connect one end of the eSATA cable to the eSATA port on the back panel of the device.
3	Connect another end of the cable to the eSATA port on the front panel of CLA-2000.

2.6 First Time Setup of CLA-2000

This section covers the steps for the first time setup of CLA-2000 including power and network connection and the initial configuration.

2.6.1 Physical Power Connection

Connect the power adapter provided to the DC power jack at the back of CLA-2000 (please refer to Section 2.4).

2.6.2 Network Connection

Connect CLA-2000 to a network which has a DHCP server running (please refer to Section 2.5.1).

First time setup of CLA-2000 must be done on a DHCP server. If DHCP server is not available, CLA-2000 can be set up by either one of the methods listed below:

1/ User may configure CLA-2000 with a home use broadband router (with DHCP function for the first time). User can then assign a fixed IP to the CLA-2000.

2/ Place special order with GDC sales for a customized fixed IP for your device at the order stage. With the customized fixed IP, user does not need a DHCP server for configuration and CLA-2000 can be accessed directly with that IP.

3/ Advanced user can connect the CLA-2000 to a VGA monitor and USB keyboard to configure the device. For details, please contact GDC Service team.

2.6.3 Power Up CLA-2000

Connect the power adapter to a wall socket. Power on the CLA-2000 by pressing the ON/OFF button (please refer to Section 2.3). When the CLA-2000 is powered on, the Power LED on the front panel lights up (please refer to Section 2.3).

2.6.4 Configure CLA-2000 via CLA Manager on Windows PC

Step 1: Connect a Windows PC (with CLA Manager installed) to the same Ethernet network of CLA-2000.

Step 2: Search the CLA-2000 on the network via CLA Manager menu (please refer to Section 3.2, step 2-6).

Step 3: If the CLA-2000 is detected, you could change the IP address as needed. *

2.6.5 Operate CLA-2000

Attach USB / eSATA storage to the CLA-2000 (please refer to Section 2.5) and follow the instructions in Section 3 to operate the CLA-2000 via CLA Manager.

Note

**User may use the reset button (Section 2.4) to reset the IP address to default as DHCP setting (please refer to Section 3.7).*

3. OPERATION OF CLA-2000

3.1 About CLA Manager

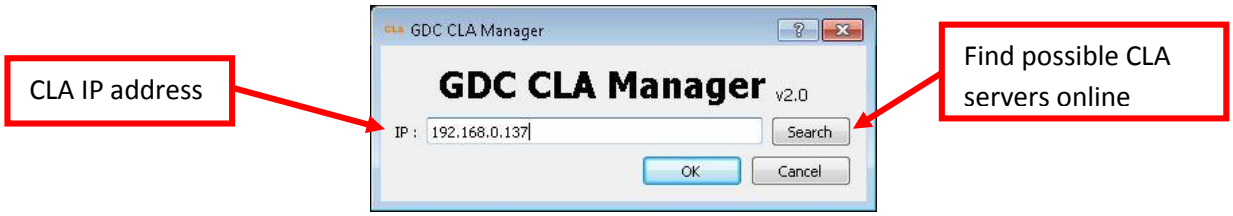
CLA Manager is the software essential for the operation of CLA-2000. CLA Manager can be either installed from the CD Rom provided or downloaded online (to download online, please consult GDC Service team for details).

3.2 Access CLA Manager

Step 1: Install CLA Manager

Step 2: Open CLA Manager

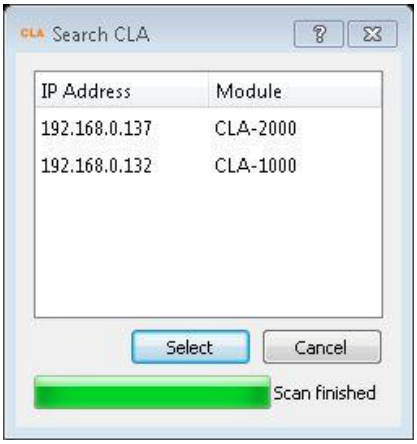
Step 3: Enter CLA IP address directly if you have it (192.168.0.137 is an example here) or click **Search** to find CLA servers on the network.



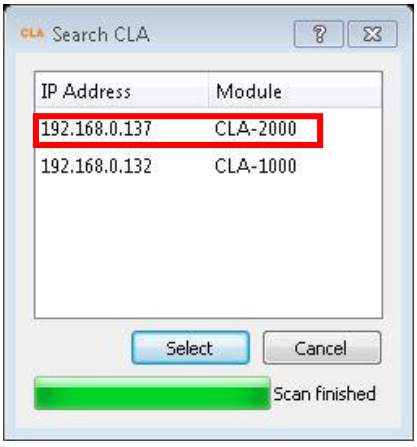
If there is more than one network interface available, a window will pop up to show all available network interfaces, select the suitable network interface and click **OK**.

NOTE: Please avoid IP conflict to ensure proper functioning

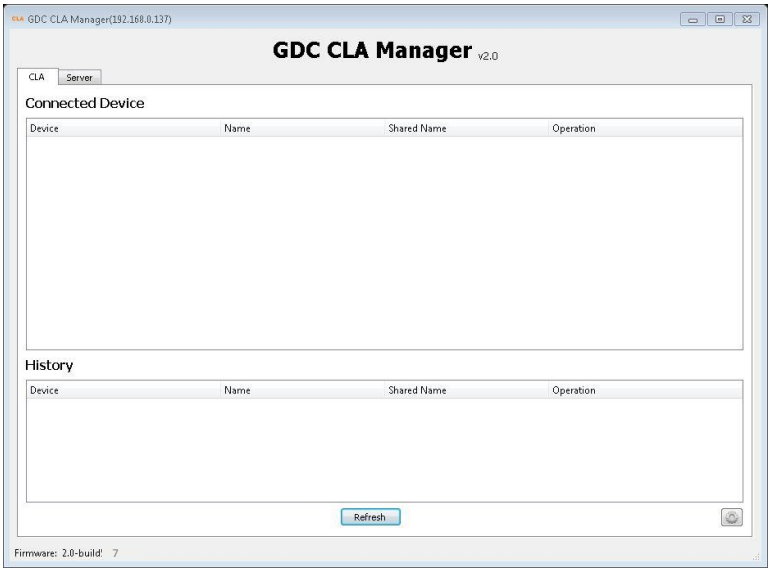
Step 4: Scanning will start automatically afterwards.



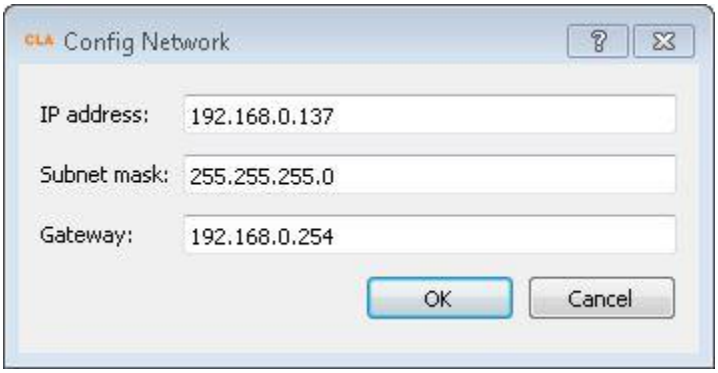
Step 5: When the scanning finishes, click on the IP address of the appropriate module and then click **Select**.



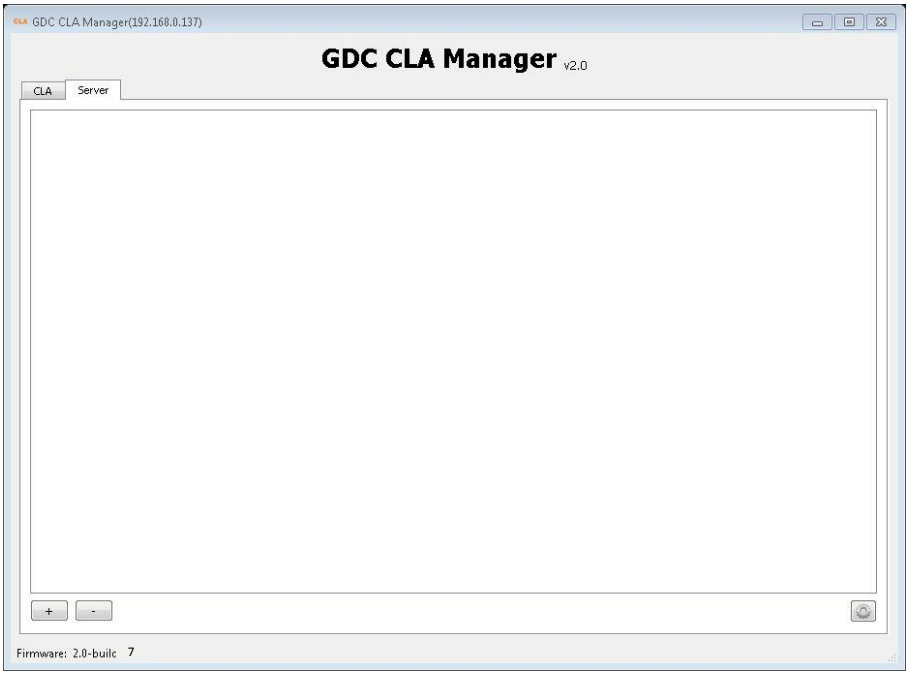
Step 6: You have successfully entered the CLA Manager.



Step 7: Click in the **CLA** tab to configure network for the CLA-2000. Fill in all the required information and then click **OK**.

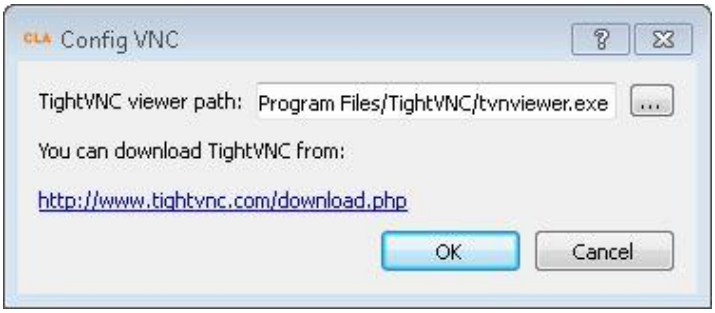


Step 8: Click the **Server** tab for GDC server management.

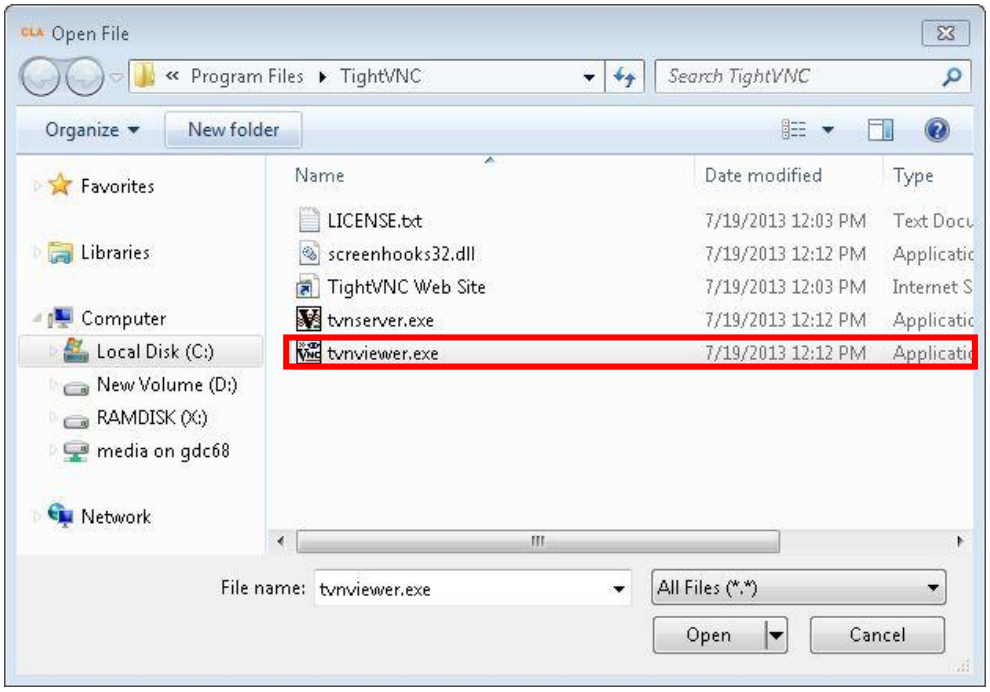


Step 9: Click in the **Server** tab to configure VNC viewer.

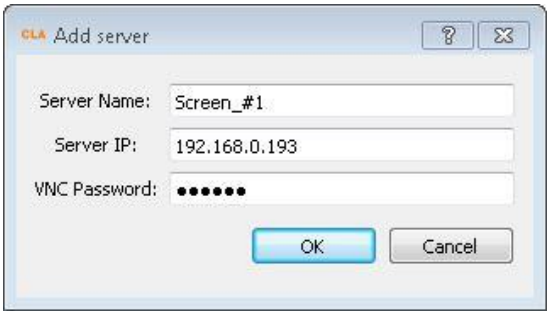
Step 10: Click [...] to select tvnviewer.exe downloaded from the link provided.



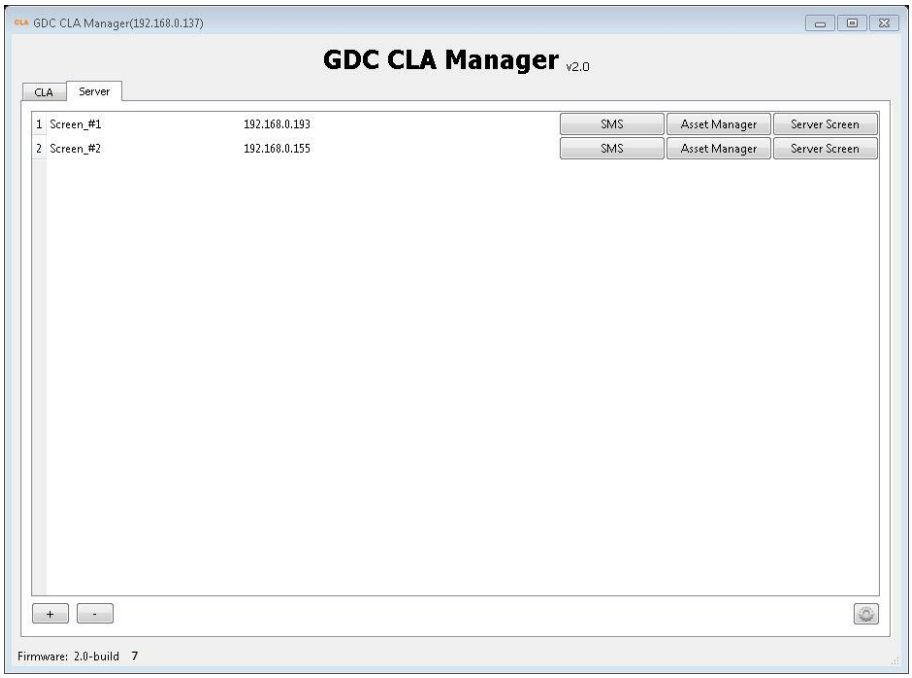
Step 11: Select tvnviewer.exe and then click **Open**.



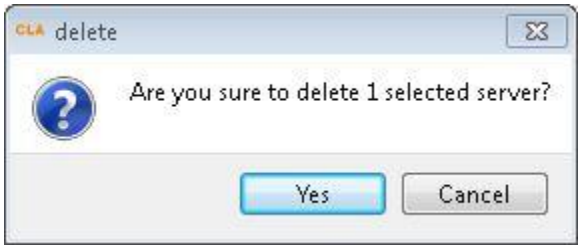
Step 12: Click [+] button in the **Server** tab to add a server.



Step 13: Click **OK** and the server is added



Step 14: If you want to delete a server, click that server and then click - to delete.



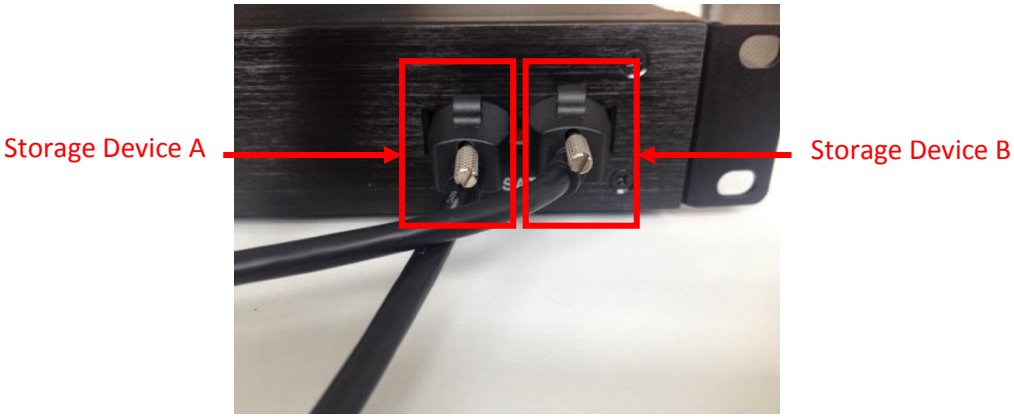
3.3 CLA-2000 Content Management

3.3.1 Content Transfer between Two Storage Devices

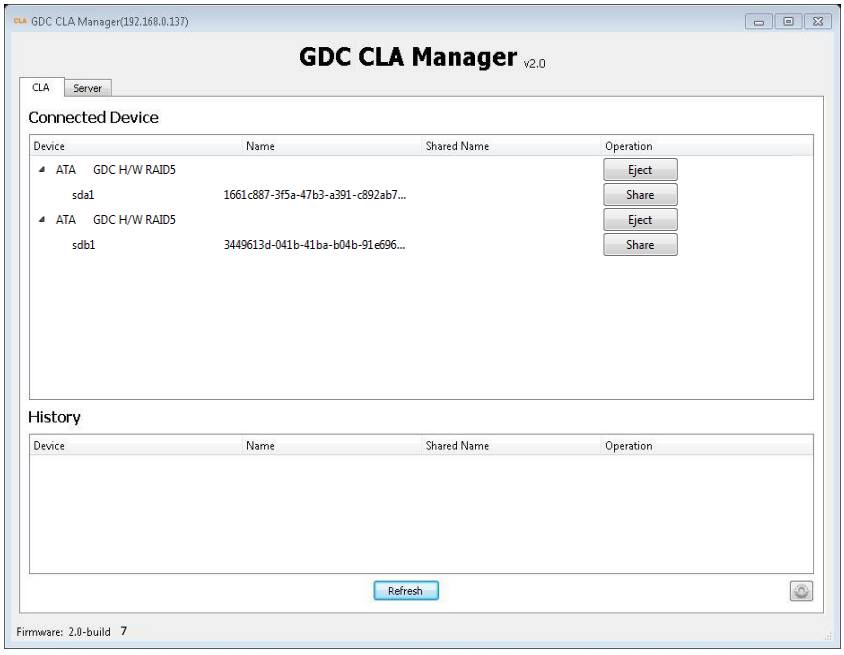
CLA-2000 enables content transfer between two storage devices.

Step 1: Connect the CLA-2000 to a network switch with an Ethernet cable (Please refer to P.10 Session 2.5.1)

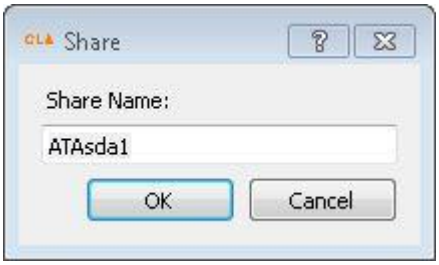
Step 2: Connect two storage devices to the CLA-2000 using an eSATA or USB cable.



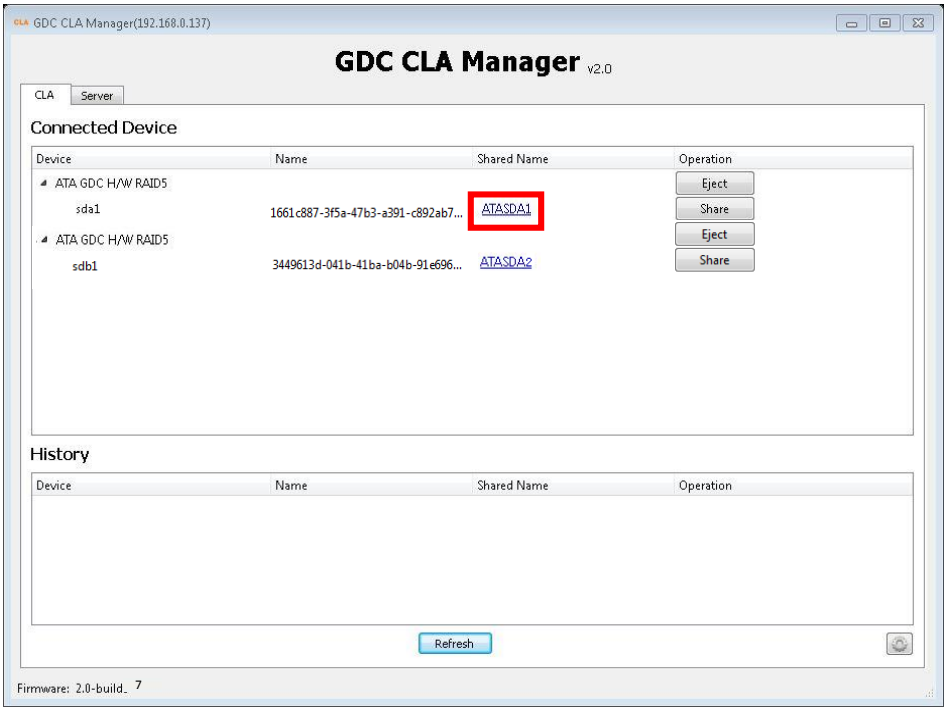
Step 3: Open the CLA Manager (Please refer to P.16-17 Session 3.2 Step 2-6), click **Refresh** and you will see the two storage devices are now connected to the CLA-2000.



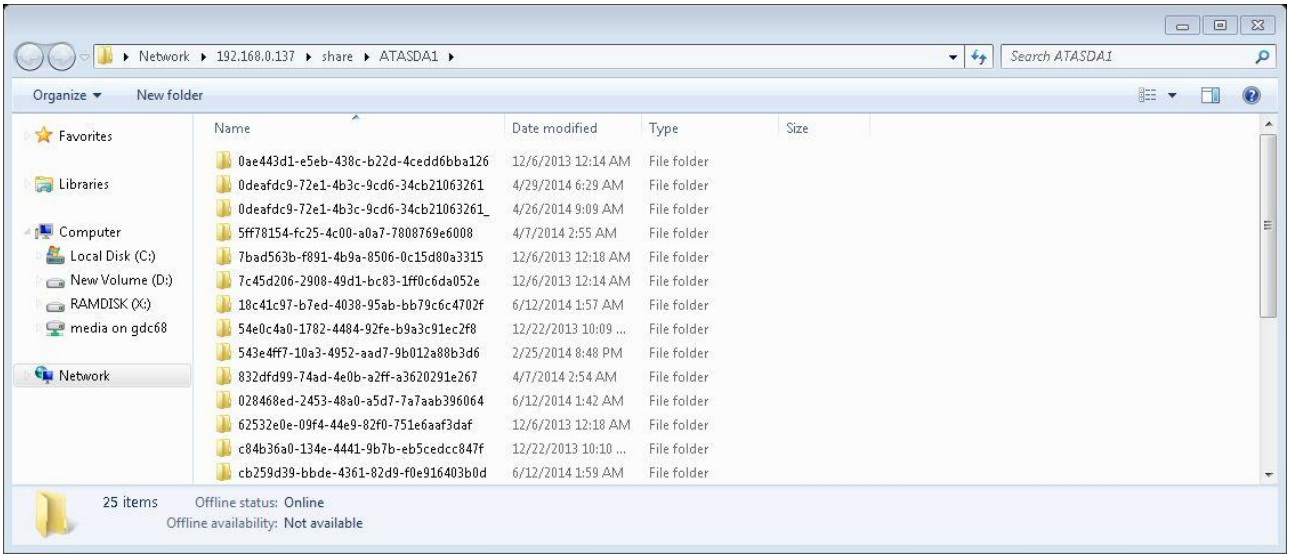
Step 4: Click **Share**, input Share Name and click **OK**.



Step 5: Click the super link under the column ‘Shared Name’ to browse the shared device.



Step 6: You will see the content of the selected storage device. Simply copy the content that you would like to transfer and paste it to the content window of the other storage device and the transfer is completed.



3.3.2 Content Transfer from CRU to Storage Device

Step 1: Connect the CLA-2000 to a network switch with an Ethernet cable. (Please refer to P.10 Session 2.5.1)

Step 2: Connect the CRU to the CLA-2000 using a USB cable. (Please refer to P. 12 Session 2.5.3.1)

Step 3: Connect a storage device to the CLA-2000 using an eSATA cable. (Please refer to P. 13 Session 2.5.3.2)

Step 4: When the connection between CRU, CLA-2000 and the storage device is done, open the CLA Manager and you can start the content transfer processes. (Please refer to P. 16-17 Session 3.2 Step 2-6)

3.3.3 Content Transfer through LAN to Multiple Screens Simultaneously

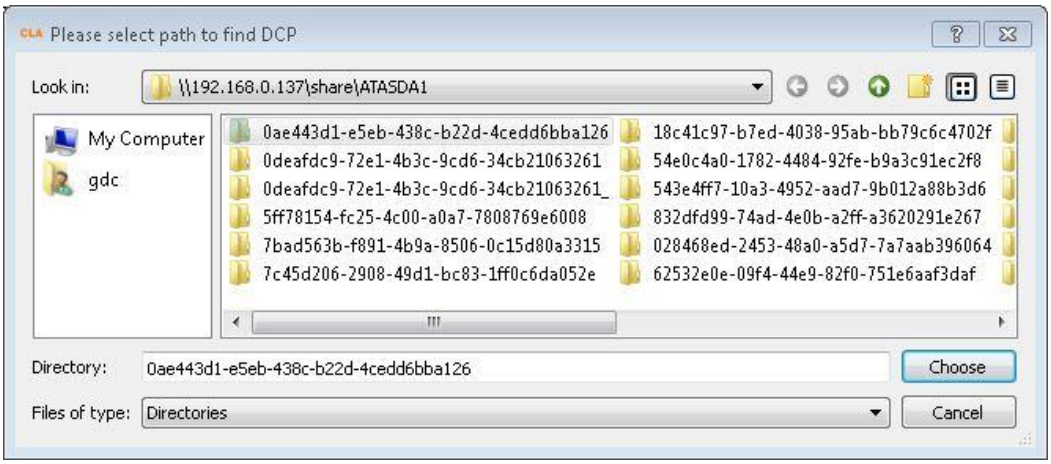
CLA-2000 enables content to be shared on the Local Area Network (LAN) of the theatre. The content can be transferred to multiple screens simultaneously without ingesting content manually from CRU to storage devices one by one, thus saving time and labor cost.

3.3.3.1 Operation on CLA Manager

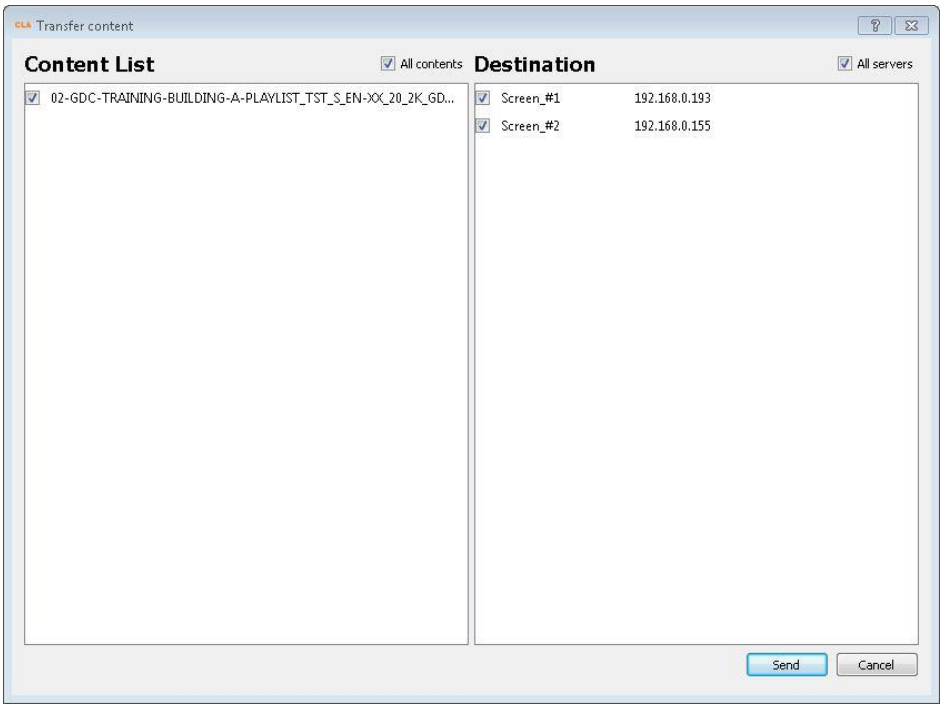
Step 1: Connect the CLA-2000 to a network switch with an Ethernet cable (Please refer to P.10 Session 2.5.1)

Step 2: Connect the CRU and storage device to the CLA-2000 with eSATA cables (Please refer to P.11-13 Session 2.5.2). Make the connected drive (CRU or storage device) to be a shared drive.

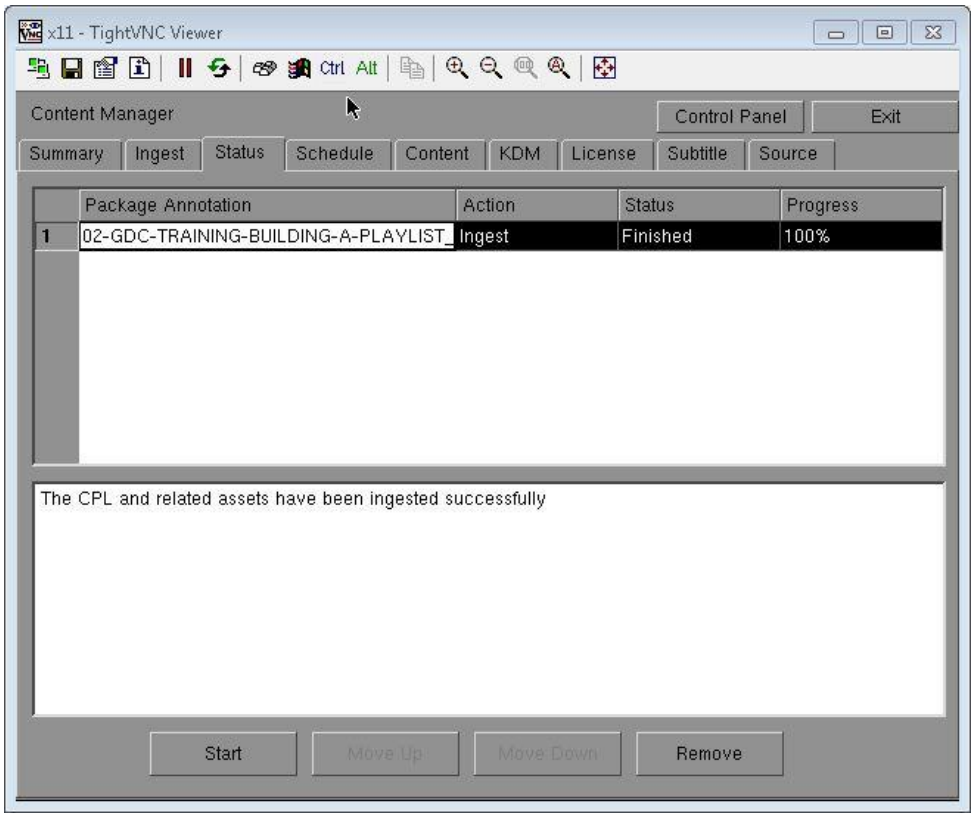
Step 3: Open the CLA Manager (Please refer to P.16-17 Session 3.2 Step 2-6), click **Transfer DCP** and select a folder to scan.



Step 4: Choose the content to be sent and the desired destination, then click **Send**.



Step 5: Click **Asset Manager** in the **Server** tab to check transfer progress.



3.3.3.2 Operation on GDC Server

Step 1: Connect the CLA-2000 to a network switcher with an Ethernet cable (Please refer to P.10 Session 2.5.1)

Step 2: Connect the CRU and storage device to the CLA-2000 using eSATA cables (Please refer to P. 13 Session 2.5.3.2). Make the connected drive (CRU or storage device) to be a shared drive.

Step 3: Go to Content Manager on Control Panel, create a new content source, fill in CLA-2000 IP, and select source CIFS (path:/share, username: guest, password: leave it blank), and then you can ingest content from CLA-2000.

3.4 Remote Access CLA-2000

3.4.1 Access CLA-2000 on the Linux or MAC Operating System

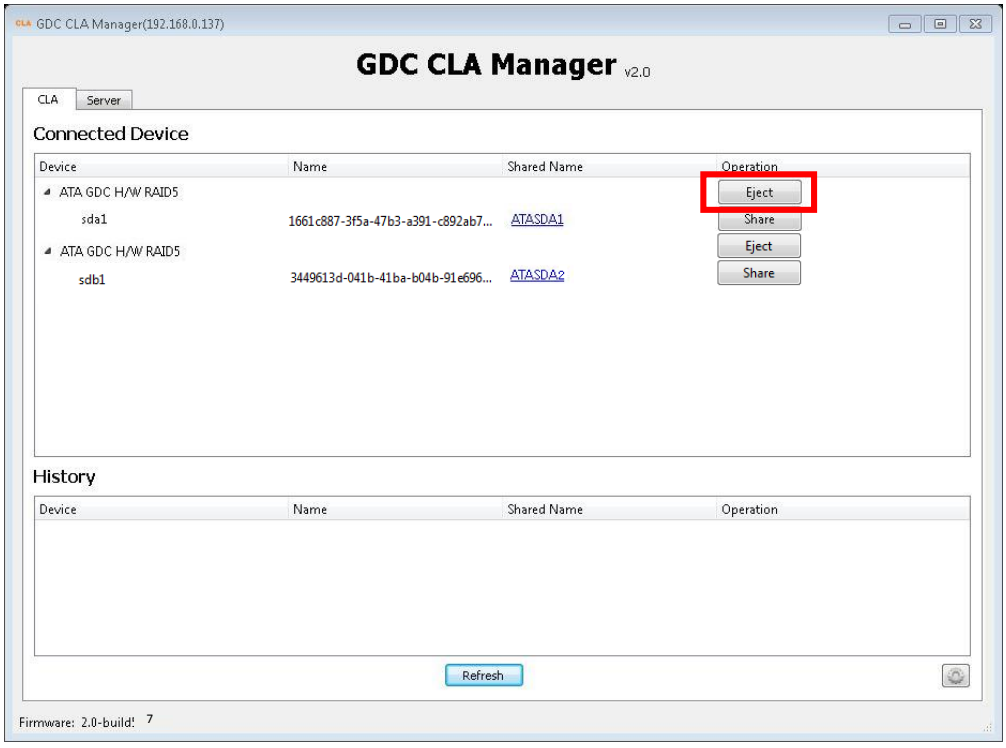
Connect to the CLA-2000 by running 'ssh -l <username> <hostname>' on your computer. Please contact GDC Service team for username and password.

3.4.2 Access CLA-2000 on the Windows Operating System

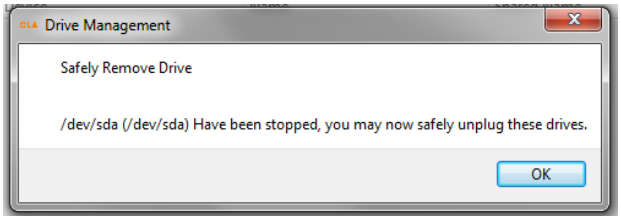
Download any SSH client for Windows, such as PuTTY.

3.5 Eject External Devices from CLA Manager

Step 1: Select the device you want to eject from the CLA Manager, and then click **Eject**.

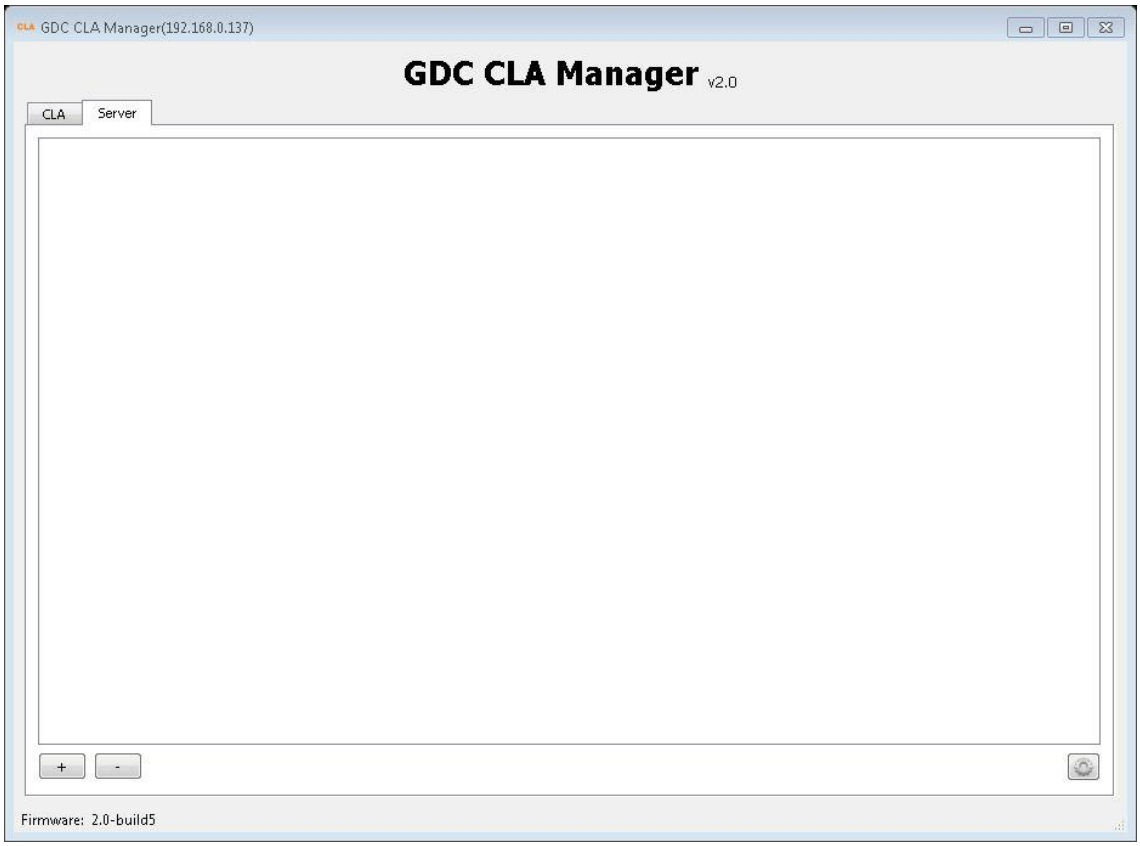


Step 2: The selected device has been successfully ejected from the CLA Manager. Click **OK** to complete the process.



3.6 Shut Down the CLA Manager

Simply click to shut down the CLA Manager.



3.7 RESET CLA-2000

This session shows you the process of resetting the CLA-2000. The whole process takes about 2 minutes. After resetting the device, IP will be reverted back to DHCP.

Use a pen or a pointed object to press the red button on the back panel to start the process. Keep holding the button until you hear the alert sound and you will see the reset process appearing on the monitor (if it is connected to a monitor).

GDC Technology Offices

Hong Kong (Headquarters)
Unit 1-7, 20th Floor,
Kodak House II,
39 Healthy Street East,
North Point, Hong Kong.
Tel: +852 2507 9555

China (Beijing)
Rm. 609-618, Office Building,
20# Xinde Street, Xicheng District,
Beijing, P.R. China 100088
Tel: +86 10 6205 7040

China (Shenzhen)
Room A701, 7/F,
Languang Technology Building,
No.7 Xinxi Road, North Zone,
High-Tech Park, Nanshan District,
Shenzhen, China
Tel: +86 755 8608 6000

Spain (Barcelona)
Edificio Mercurio
Vía Augusta, 59, desp. 607
08006 Barcelona, Spain
Tel: +34 93 159 51 75

Peru (Lima)
Calle Rey Bahamonde N°111
Santiago de Surco
Lima 33 – Peru
Tel: +51 1 677 6708

USA (Los Angeles, CA)
1016 West Magnolia Boulevard
Burbank, CA 91506, USA
Tel: +1 818 972 4370 / +1 877 743 2872 (Toll Free)

Mexico (Mexico City)
Ave. Santa Fe 94, Torre A Piso 8
Col. Zedec Santa Fe, Alvaro Obregon,
Mexico, D.F., C.P. 01210 Mexico
Tel: +52 55 8851 1198 / +52 55 8851 1165

India (Mumbai)
Office No. B-207/208,
Everest Chamber, Andheri Kurla Road, Marol,
Andheri (East), Mumbai-400 059, India
Tel: +91 22 4044 0500

Brazil (São Paulo)
Avenida Paulista, 807 conjs. 701/703
01311-100, São Paulo – Brasil
Tel: +55 11 32058100

Singapore
10 Ubi Crescent, Ubi Tech Park,
Lobby B, #06-25
Singapore 408564
Tel: +65 6222 1082

Japan (Tokyo)
3F, Kyobashi-Chuo Bldg,
1-14-7 Kyobashi Chuo-ku
Tokyo 104-0031, Japan
Tel: +81 3 5524 3607

Indonesia (Jakarta)
Total Building Lantai 4 Suite 0401,
Jl. Letjen S. Parman Kav. 106A,
Kel. Tomang, Kec. Grogol Petamburan,
Jakarta Barat 11440

Email: info@gdc-tech.com
Website: www.gdc-tech.com

ISO 9001 QMS

Cert. No. CN09/32221

GDC Technology manufacturing facility is ISO 9001:2008 certified.

Copyright © 2014 GDC Technology Limited. All rights reserved.
All trademarks listed in this manual are properties of their respective owners.
Specifications are subject to change without notice due to ongoing
product development and improvement.

UM-0218-1409-V1E